Abstract

By using

Template: 5'-NRWXZ- 3'

Primer: 3'-Y- 5'

(wherein, Y hybridizes to X of a template,

N is 13 - 19 mer DNA, RNA or a chimeric nucleic acid,

R is RNA,

W is DNA or a chimeric nucleic acid,

X is 15 mer or more DNA, RNA or a chimeric nucleic acid,

Y is a same length DNA, RNA or a chimeric nucleic acid with X to which Y hybridizes. In case that X to which Y hybridizes is DNA, Y is DNA. In case that X to which Y hybridizes is RNA, Y is RNA. In case that X to which Y hybridizes is a chimeric nucleic acid, Y is a chimeric nucleic acid (In the chimeric nucleic acid, in case that X to which Y hybridizes is DNA, Y is DNA. In case that X to which Y hybridizes is RNA, Y is RNA),

Z is DNA, RNA or a chimeric nucleic acid

(provided that, W and Z can be absent)),

a test compound can be preincubated with a reverse transcriptase-substrate complex formed under the presence of a metal ion and a screening method for a substance which inhibits polymerization-dependent RNase H activity is established.